

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000796

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C08B 31/02, C08B 31/08, C08B 31/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C08B, C09J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS, WPI, EPODOC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03068823 A1 (VALTION TEKNILLINEN TUTKIMUSKESKUS), 21 August 2003 (21.08.2003) --	1-18
X	Journal of Applied Polymer Science, Vol. 42, 1991, M.E. Carr: "Starch-Derived Glycol and Glycerol Glucosides Prepared by Reactive Extrusion Processing", pages 45-53	1-18
Y	--	1-18

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

3 February 2004

Date of mailing of the international search report

04 -02- 2004

Name and mailing address of the ISA/

Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Erika Stenroos/EI

Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 2003/000796

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Society of Plastics Engineers. Technical conference (52:San Francisco:1994), Vol. 2, 1994, M.E. Carr: "Preparation of Starch Derivatives by Reactive Extrusion"	1-18
Y	--	1-18
X	Cereal Chem. volume 73, no. 2, 1996, K. Subramanian et al: "Glycol Glucosides Process Synthesis by Reactive Extrusion with a Static Mixer as Postextruder Reactor", pages 179-184	1-18
Y	--	1-18
X	Starch/Stärke, volume 47, no.12, 1995, R.A. de Graaf et al: "Quantitative Analysis of Chemically Modified Starches by <sup>1</sup> H-NMR Spectroscopy", pages 469-475	1-18
X	Polymer preprints, volume 33, no. 1, 1992, M.E. Carr et al: "Glycol Glucoside Extrudate from Cornstarch as the Polyether Polyol for Polyurethane Foam Preparation", pages 946-947	1-18
X	Cereal Chem. volume 66, no. 3, 1989, M.E. Carr et al: "Glycol Glucosides from Starch by Continuous Twin-Screw Extruder Processing", pages 238-243	1-18
X	EP 1148067 A1 (COÖPERATIEVE VERKOOP- EN PRODUCTIEVERENIGING VAN AARDAPPELMEEL EN.....), 24 October 2001 (24.10.2001)	1-18
A	US 5861461 A (BYUNG HYUNG LEE ET AL), 19 January 1999 (19.01.1999)	1-18

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000796

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03068884 A1 (VALTION TEKNILLINEN TUTKIMUSKESKUS), 21 August 2003 (21.08.2003)  -- -----	1-18

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

24/12/2003

International application No.

PCT/FI 2003/000796

WO	03068823	A1	21/08/2003	FI	5602 U	22/11/2002
				FI	20020313 A,V	16/08/2003
EP	1148067	A1	24/10/2001	AU	5065901 A	30/10/2001
				BR	0110127 A	11/02/2003
				CN	1425028 T	18/06/2003
				EP	1274734 A	15/01/2003
				US	2003141637 A	31/07/2003
				WO	0179301 A	25/10/2001
US	5861461	A	19/01/1999	DE	19650568 A	12/06/1997
				JP	9194696 A	29/07/1997
				KR	197899 B	15/06/1999
WO	03068884	A1	21/08/2003	FI	5789 U	21/05/2003
				FI	20020317 A,V	16/08/2003